Product Name: IRAK-M Rabbit Polyclonal Antibody
Catalog #: APRab12732

Summary

Production Name	IRAK-M Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,IHC,WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	IRAK3
Alternative Names	IRAK3; Interleukin-1 receptor-associated kinase 3; IRAK-3; IL-1 receptor-associated kinase M; IRAK-M
Gene ID	11213.0
SwissProt ID	Q9Y616.The antiserum was produced against synthesized peptide derived from human IRAK3. AA range:491-540

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	68kD

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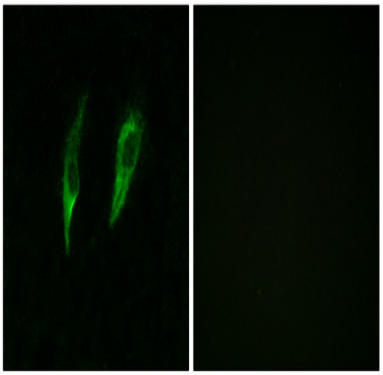
Background

This gene encodes a member of the interleukin-1 receptor-associated kinase protein family. Members of this family are essential components of the Toll/IL-R immune signal transduction pathways. This protein is primarily expressed in monocytes and macrophages and functions as a negative regulator of Toll-like receptor signaling. Mutations in this gene are associated with a susceptibility to asthma. Alternate splicing results in multiple transcript variants. [provided by RefSeq, May 2010],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,caution:Ser-293 is present instead of the conserved Asp which is expected to be an active site residue. Low level autophosphorylation activity has been reported in PubMed:10383454, while other authors describe this as an inactive kinase.,cofactor:Magnesium.,disease:Defects in IRAK3 are associated with susceptibility to asthma-related traits type 5 (ASRT5) [MIM:611064]. Asthma-related traits include clinical symptoms of asthma, such as coughing, wheezing, dyspnea, bronchial hyperresponsiveness as assessed by methacholine challenge test, serum IgE levels, atopy, and atopic dermatitis.,function:Inhibits dissociation of IRAK1 and IRAK4 from the Toll-like receptor signaling complex by either inhibiting the phosphorylation of IRAK1 and IRAK4 or stabilizing the receptor complex.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily.,similarity:Contains 1 death domain.,similarity:Contains 1 protein kinase domain.,tissue specificity:Expressed predominantly in peripheral blood lymphocytes.,

Research Area

Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;Neurotrophin;

Image Data



Immunofluorescence analysis of HeLa cells, using IRAK3 Antibody. The picture on the right is blocked with the synthesized peptide.

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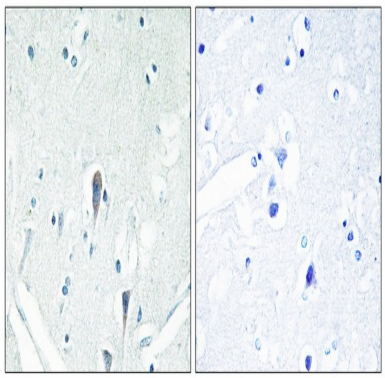
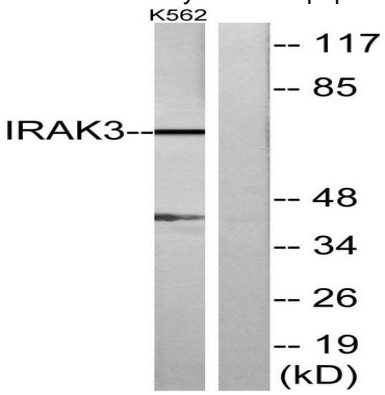
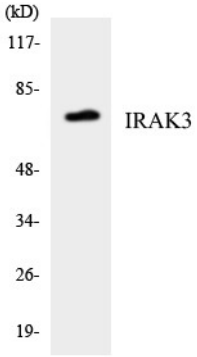


Immunohistochemistry analysis of paraffin-embedded human brain, using IRAK3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 cells, using IRAK3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVECcells using IRAK3 antibody.

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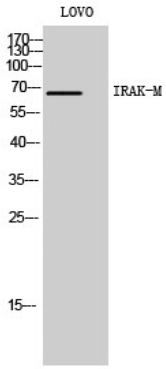

Western Blot analysis of LOVO cells using IRAK-M Polyclonal Antibody

Note

For research use only.